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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
SEQUENCE LISTING

110: Applicant Stuart A. Newman, et al.

120: Title of Invention SPLICE CHOICE ANTAGONISTS AS THERAPEUTIC AGENTS

130: File Reference 51230 00601

140: Serial No. 09/849,967

141: Filed 2001-05-08

160: Number of SEQ ID NOs 4

210: SEQ ID NO 1

211: Length 1689

212: Type DNA

213: Organism Chicken

400: Sequence SEQ ID NO:1 Full length cDNA for chicken hnRNP A1

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1 gcgtctccac ccctcagcgg gcggcggtga gtgcgccagg ccagcgccgg cgtgggaccg
61 agcgggcggtg aaggcgcgag ctgaacgctg gcacggtttc ctagatctaa aagaaaggcc
121 gagttagagt acccttccaa AATGGCTGCT ATTAAGGAAG AGAGAGAGGT GGAAGATTAC
181 AAGAGAAAAA GGAAGACGAT CAGCACAGGC CATGAGCCTA AGGAGCCAGA GCAGTTGAGA
241 AAGCTGTTCA TTGGAGGTCT GAGCTTCGAG ACGACGGATG ATAGCTTGAG AGAGCACTTT
301 GAAAAATGGG GCACACTCAC GGACTGTGTG GTGATGAGAG ACCCACAAAC AAAACGTTCC
361 AGAGGCTTTG GCTTTGTTC TTTACTCTTG GTGGAAGAGG TGGATGCGGC CATGAGCGCT
421 CGACCACATA AGGTGGATGG ACGTGTGGTT GAACCAAAGA GAGCAGTTTC AAGGGAGGAT
481 TCTGTAAAGC CTGGGGCGCA TCTCACAGTA AAGAAAATAT TTGTTGGTGG CATTAAAGAA
541 GATACAGAAG AATATAATTT AAGGGGGTAC TTTGAAACAT ATGGCAAGAT CGAAACGATA
601 GAAGTCATGG AAGACAGACA AAGTGGAAAG AAAAGAGGCT TCGCTTTTGT AACTTTTGAT
661 GATCACGATA CAGTTGATAA AATTGTTGTT CAGAAATACC ATACTATAAA TGGTCATAAC
721 TGCGAAGATA AAAAAGCACT CTCAAAACAA GAGATGCAGA CTGCCAGCTC TCAGAGAGGT
781 CGTGGGGGTG GTTCAGGCAA CTTTCATGGG CGTGGAAATT TTGGAGGTGG TGGAGGAAAC
841 TTTGGCCGAG GAGGAACTT TGGTGAAGA GGAGGCTATG GGGGTGGTGG TGGCGGTGGT
901 GGGAGCAGAG GAAGCTTTGG GGGTGGTGAT GGATACAACG GATTTGGTGA TGGTGGCAAC
961 TATGGAGGTG GTCCTGGCTA TGGCAGCAGA GGGGGTTATG GTGGTGGTGG AGGACCAGGA
1021 TATGGAAACC CAGGTGGTGG ATATGGAGGT GGAGGAGGAG GATATGGTGG CTACAATGAA
1081 GGAGGCAATT TTGGAGGTGG TAATTATGGA GGCAGTGGAA ACTACAATGA CTTTGGTAAC
1141 TACAGTGGAC AGCAGCAGTC CAATTACGGT CCCATGAAAG GTGGTGGCAG TTTTGGTGGT
1201 AGAAGTTCAG GCAGTCCCTA TGGTGGTGGT TATGGATCTG GAAGTGAAG TGGGGGCTAT
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1261 GGTGGTAGAA GATTCTaaaa atgctaccag aaaaagggct acagttctta gcaggagaga  
1321 gagcgaggag ttgtcaggaa agctgcaggt tactttgaga cagtcgtccc aaatgcatta  
1381 gaggaactgt aaaatctgcc acagaaggaa cgatgatcca tagtcagaaa agttactgca  
1441 gcttaaacag gaaacccttc ttgttcagga ctgtcatagc cacagtttgc aaaaagagca  
1501 gctattggtt aatgcaatgt agtgtcgta gatgtacatc ctgaggtctt tatctgttgt  
1561 agctttgtct ttcttttttc tttttatatt cccattacat caggtatatt gccctgtaaa  
1621 ttgtggtagt ggtaccagga ataaacaaat taaggaattt ttggcttttc aaaaaaaaaa  
1681 aaaaaaaaaa

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140: Serial No.	09/849,967
141: Filed	2001-05-08
160: Number of SEQ ID NOs	4
210: SEQ ID NO	2
211: Length	378
212: Type	PRT
213: Organism	Chicken
400: Sequence	SEQ ID NO:2 Amino acid sequence of chicken hnRNP A1

MAAIKEEREVEDYKRKRKTISTGHEPKEPEQLRKLFIGGLSFETTDDSLREHFKEKWGTLTDCVVMRDPQTK  
 RSRGFGFVTYSCVEEVDAAMSARPHKVDGRVVEPKRAVSREDSVKPGAHLTVKKIFVGGIKEDTEEYNLRG  
 YFETYGKIETIEVMEDRQSGKKRGFAFVTFDDHDTVDKIVVQKYHTINGHNCEDEKALSKQEMQTASSQRG  
 RGGGSGNFMGRGNFSGGGGNFGRGNFGRGGYGGGGGGGSRGSFGGGDGYNGFGDGGNYGGGPGYGSRG  
 GYGGGGGPGYGNPGGGYGGGGGYGGYNEGGNFGGGNYGGSGNYNDFGNYSQQQSNYGP MKGGGSFGGRS  
 SGSPYGGGYGSGSGSGGYGGRRF

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141: Filed	2001-05-08
160: Number of SEQ ID NOs	4
210: SEQ ID NO	3
211: Length	314
212: Type	PRT
213: Organism	Human
400: Sequence	SEQ ID NO:3 Amino acid sequence of human hnRNP A1

PKEPEQLRKLFIFGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTRSRGFGFVITYATVEEVDAAMNARPH  
KVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEHHLRDYEYQYKIEVIEIMTDRGSGKKRGF  
AFVTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMASASSQRGRSGSGNFGGGRGGGFGGNDNFGRG  
GNFSGRGGFGGSRGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYYNNQSSNFGPMKGGNFGGRSSGPYG  
GGGQYFAKPRNQGGYGGSSSSSSSYGSGRRF

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141: Filed 2001-05-08

160: Number of SEQ ID NOs 4

210: SEQ ID NO 4

211: Length 1136

212: Type DNA

213: Organism Chicken

400: Sequence SEQ ID NO:4 Open reading frame of cDNA for chicken hnRNP A1

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AATGGCTGCT ATTAAGGAAG AGAGAGAGGT GGAAGATTAC AAGAGAAAAA GGAAGACGAT
CAGCACAGGC CATGAGCCTA AGGAGCCAGA GCAGTTGAGA AAGCTGTTCA TTGGAGGTCT
GAGCTTCGAG ACGACGGATG ATAGCTTGAG AGAGCACTTT GAAAAATGGG GCACACTCAC
GGACTGTGTG GTGATGAGAG ACCCACAAAC AAAACGTTCC AGAGGCTTTG GCTTTGTTAC
TTACTCTTGC GTGGAAGAGG TGGATGCGGC CATGAGCGCT CGACCACATA AGGTGGATGG
ACGTGTGGTT GAACCAAAGA GAGCAGTTTC AAGGGAGGAT TCTGTAAAGC CTGGGGCGCA
TCTCACAGTA AAGAAAATAT TTGTTGGTGG CATTAAAGAA GATACAGAAG AATATAATTT
AAGGGGGTAC TTTGAAACAT ATGGCAAGAT CGAAACGATA GAAGTCATGG AAGACAGACA
AAGTGGAAG AAAAGAGGCT TCGCTTTTGT AACTTTTGAT GATCACGATA CAGTTGATAA
AATTGTTGTT CAGAAATACC ATACTATAAA TGGTCATAAC TGCGAAGATA AAAAAGCACT
CTCAAAACAA GAGATGCAGA CTGCCAGCTC TCAGAGAGGT CGTGGGGGTG GTTCAGGCAA
CTTCATGGGT CGTGGAATTT TTGGAGGTGG TGGAGGAAAC TTTGGCCGAG GAGGAAACTT
TGGTGAAGA GGAGGCTATG GGGGTGGTGG TGGCGGTGGT GGGAGCAGAG GAAGCTTTGG
GGGTGGTGAT GGATACAACG GATTTGGTGA TGGTGGCAAC TATGGAGGTG GTCCTGGCTA
TGGCAGCAGA GGGGGTTATG GTGGTGGTGG AGGACCAGGA TATGGAAACC CAGGTGGTGG
ATATGGAGGT GGAGGAGGAG GATATGGTGG CTACAATGAA GGAGGCAATT TTGGAGGTGG
TAATTATGGA GGCAGTGGAA ACTACAATGA CTTTGGTAAC TACAGTGGAC AGCAGCAGTC
CAATTACGGT CCCATGAAAG GTGGTGGCAG TTTTGGTGGT AGAAGTTCAG GCAGTCCCTA
TGGTGGTGGT TATGGATCTG GAAGTGGAAG TGGGGGCTAT GGTGGTAGAA GATTCT

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